aiwa

OPERATING INSTRUCTIONS
INSTRUCCIONES DE MANEJO
MODE D'EMPLOI

CSD-FD92
CSD-FD82

COMPACT DISC STEREO RADIO CASSETTE RECORDER

RADIOCASETE ESTÉREO CON REPRODUCTOR DE DISCOS COMPACTOS

RADIO-CASSETTE LECTEUR DE CD STEREO

English : See page 2. En

Español : Ver la página 12. E

Français : Voir page 22. F

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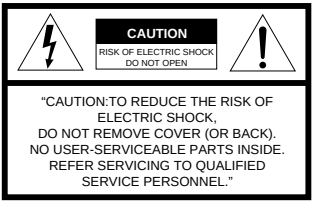
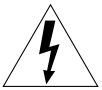
COMPACT disc DIGITAL AUDIO

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



Explanation of Graphical Symbols:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

OWNER'S RECORD
For your convenience, record the model number (you will find it at the bottom of the unit) and serial number (you will find it in the battery compartment) in the space provided below. Please refer to them when you contact your AIWA dealer in case of difficulty.

Model No. _____

Serial No. _____

Precautions

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

Installation

1 **Water and moisture** - Do not use this unit near water, such as near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, swimming pool, or the like.
2 **Heat** - Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat.
It also should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
3 **Mounting surface** - Place the unit on a flat, even surface.
4 **Ventilation** - The unit should be situated with adequate space around it so that proper heat ventilation is assured.
Allow 10 cm (4 in.) clearance from the rear and the top of the unit and 5 cm (2 in.) from each side.
- Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
- Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.

5 **Objects and liquid entry** - Take care that objects or liquids do not get inside the unit through the ventilation openings.
6 **Carts and stands** - When placed or mounted on a stand or cart, the unit should be moved with care.
Quick stops, excessive force, and uneven surfaces may cause the unit or cart to overturn or fall.

7 **Condensation** - Moisture may form on the CD pickup lens when:
- The unit is moved from a cold spot to a warm spot
- The heating system has just been turned on
- The unit is used in a very humid room
- The unit is cooled by an air conditioner

When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.
8 **Wall or ceiling mounting** - The unit should not be mounted on a wall or ceiling, unless specified in the Operating Instructions.

Electric Power

1 **Power sources** - Use on batteries or AC house current, as specified in the Operating Instructions and marked on the unit.
2 **Polarization** - As a safety feature, some units are equipped with polarized AC power plugs which can only be inserted one way into a power outlet. If it is difficult or impossible to insert the AC power plug into an outlet, turn the plug over and try again. If it still does not easily insert into the outlet, please call a qualified service technician to service or replace

the outlet. To avoid defeating the safety feature of the polarized plug, do not force it into a power outlet.

3 **AC power cord**
- When disconnecting the AC power cord, pull it out by the AC power plug. Do not pull the cord itself.
- Never handle the AC power plug with wet hands, as this could result in fire or shock.
- Power cords should be firmly secured to avoid being bent, pinched, or walked upon. Pay particular attention to the cord from the unit to the power socket.
- Avoid overloading AC outlets and extension cords beyond their capacity, as this could result in fire or shock.

4 **Extension cord** - To help prevent electric shock, do not use a polarized AC power plug with an extension cord, receptacle, or other outlet unless the polarized plug can be completely inserted to prevent exposure of the blades of the plug.

5 **When not in use** - Unplug the AC power cord from the AC outlet or remove all the batteries if the unit will not be used for several months or more. When the cord is plugged in, a small amount of current continues to flow to the unit, even when the power is turned off.

Maintenance
Clean the unit only as recommended in the Operating Instructions.

Damage Requiring Service
Have the units serviced by a qualified service technician if:
- The AC power cord or plug has been damaged
- Foreign objects or liquid have got inside the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

DO NOT ATTEMPT TO SERVICE THE UNIT YOURSELF.

Specifications

Tuner section
Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 530/531 - 1,710/1,602 kHz (10/9 kHz step) Ferrite bar antenna

Deck section
Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — AC erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section
Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General
Speaker — 100 mm cone type (2), 36 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ, 7 ohms DC) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 120 V, 60 Hz / Power consumption — 15 W / Dimensions (W × H × D) — 460 × 192 × 262 mm ($18\,1/8 \times 7\,5/8 \times 10\,3/8$ in.) / Weight (excluding batteries) — 4.0 kg (8 lbs. 13 oz.) / Accessories — Remote control (1), AC cord (1)

Specifications and external appearance are subject to change without notice.

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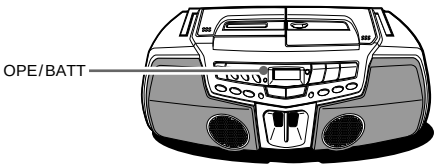
COPYRIGHT
Please check the copyright laws relating to recordings from disc, radio or external tape for the country in which the machine is being used.

If an erroneous display or malfunction occurs
Turn off the unit and press POWER STANDBY/ON⏻ while pressing ■.
If the unit cannot be reset in the way above, disconnect the AC cord and remove all the batteries to turn off the display.
Leave the unit for a while and turn the power back on.

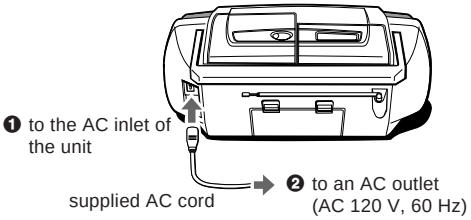
Power supply



The OPE/BATT indicator lights up while the power is on.

Using on AC house current

Connect the AC cord as illustrated below.



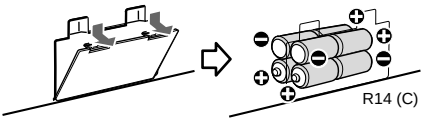
- The rated voltage of the unit is 120 V AC.
- If abnormal high voltage is supplied, “Hi” flashes in the display and the unit does not accept any operation. Disconnect the AC cord.

CAUTION
Use only the supplied AC cord. Use with other cords may result in the risk of fire.

Demo display
When connecting the unit to an AC outlet for the first time, the demo display will begin automatically. The illuminations on the front panel also flash (CSD-FD92 only).
To turn off the demo, press *DISPLAY/COLOR/DEMO. You can turn it on or off by pressing DISPLAY/COLOR/DEMO while the power is off.
* or DISPLAY on the remote control
- When using the unit on the batteries, the demo is not displayed.
- For ordinary use, turn off the demo to save power consumption.

Using on batteries

Open the lid of the battery compartment on the rear and insert eight R14 (size C) batteries, not supplied, as illustrated below. Then close the lid.
To switch from AC power supply to battery supply, disconnect the AC cord from the AC inlet.



When the OPE/BATT indicator becomes dim, volume decreases, or sound is distorted during operation, replace the batteries.
When the batteries become weak during tape operation, “Lo” flashes in the display and the unit will be stopped or turned off. Replace the batteries.

Notes on batteries
To avoid damage from leakage or explosion, observe the following:
- Insert the batteries with the ⊕ and ⊖ marks correctly aligned.
- Do not mix different types of batteries or old batteries with new ones.
- When the unit is not to be used for a long period, remove the batteries.
- Never recharge the batteries, apply heat to them or take them apart.
- Remove dead batteries.

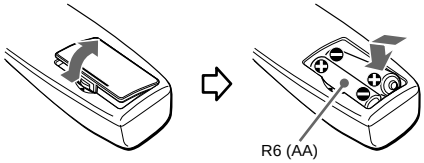
If liquid leaks from the batteries, wipe thoroughly to remove.

Changing the display color
You can select the color of the display light: orange, blue, purple (or turned off).
Press *DISPLAY/COLOR/DEMO repeatedly while the power is on.
* or DISPLAY on the remote control
- When using the unit on the batteries, the display light is off.

Illuminations on the front panel (CSD-FD92 only)
The illuminations light up or flash while the power is on. In playback mode, they will show the approximate sound level.
To turn off the illuminations, hold down *DISPLAY/COLOR/DEMO while the power is on. To resume, hold it down again.
* or DISPLAY on the remote control
- When using the unit on the batteries, the illuminations are off.

Remote control

Insert two R6 (size AA) batteries.



When the reach of the remote control signal is less than 5 meters (16 feet), replace the batteries.

The remote control may not operate correctly when:

- The unit is exposed to intense light, such as direct sunlight
- Objects block the remote control signal to the unit

To use the buttons on the remote control

Buttons on the remote control and the main unit with identical indications have the same functions.

To turn the power on

Press POWER to turn on the display.
When using the unit on the batteries, this button will not turn the power on.

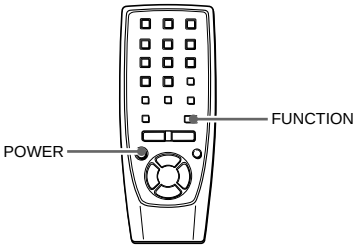
To turn the power off

Press POWER to turn off the display.

To use the FUNCTION button

Each time FUNCTION is pressed while the power is on, the function is selected cyclically.

CD → TAPE → TUNER



Maintenance

To clean the cabinet

Use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents such as alcohol, benzine or thinner.

To clean the heads

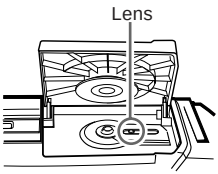
When the tape heads are dirty;

- high frequency sound is not emitted
- the sound is not adequately high
- the sound is off-balance
- the tape cannot be erased
- the tape cannot be recorded on

After every 10 hours of use, clean the tape heads with a head cleaning cassette.
Use separately sold dry-type or wet-type cleaning cassette.
Refer to the instructions of the cleaning cassette for details.

To clean the lens

Use a cotton swab slightly moistened with cleaning fluid. Wipe gently from the center to the edge.



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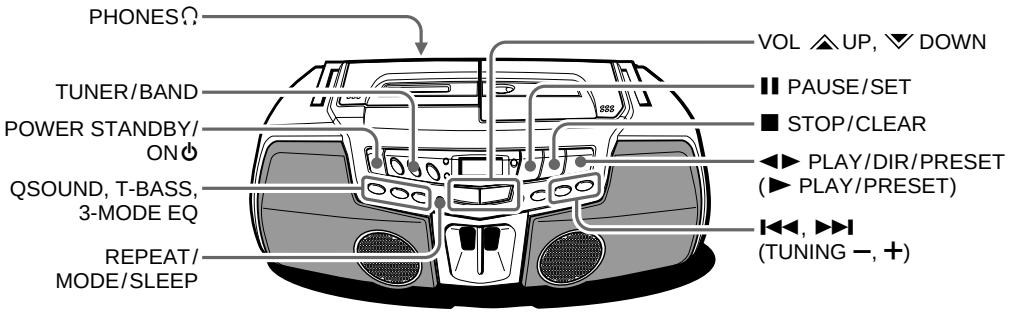


A TUNER OPERATION

1 Press *TUNER/BAND repeatedly to select the desired band.

FM → AM

The power is turned on and the previously tuned station is received.

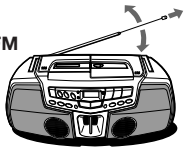
* or BAND on the remote control (applicable when the AC cord is connected)

2 Press I◄◄, ►►I (TUNING –, +) to select a station.

After listening, press POWER STANDBY/ON⏻ to turn the power off.

For better reception

FM



Extend the rod antenna and orient it for the best reception.

AM

The antenna is inside the unit. Position the unit for the best reception.

For quick tuning (Auto Search)

Keep I◄◄, ►►I pressed until the tuner starts searching for a station. When a station is tuned to, the search stops.

If the broadcast signal is weak, it does not stop. To stop the search manually, press I◄◄ or ►►I.

***REPEAT/MODE/SLEEP**

- If an FM stereo broadcast contains noise, press the button so that MONO is displayed.
  Noise is reduced, although reception is monaural.
  To restore stereo reception, press the button again.
- If a high-pitched sound is heard during AM recording, press the button repeatedly to display “b1” or “b2”, so as to eliminate the noise.

* or MODE on the remote control

To change the AM tuning interval

The default setting of the AM tuning interval is 10 kHz/step. If you use the unit in an area where the frequency allocation system is 9 kHz/step, change the interval as follows.

1 Press TUNER/BAND.
2 Press POWER STANDBY/ON⏻ while pressing TUNER/BAND.

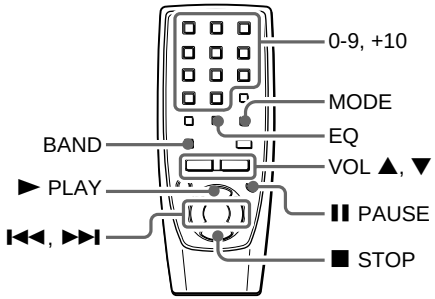
When the AM tuning interval is changed, the preset stations are cleared.

NOTE

If the unit picks up noise from other electrical appliances nearby, like a TV or fluorescent lights, move the unit.

To listen with the headphones

Connect headphones with a stereo mini plug to the PHONES ∩ jack on the rear of the unit.

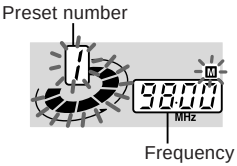


PRESETTING STATIONS

You can preset up to 15 stations in each band.

1 Select a station.

2 Press * ❚❚ PAUSE/SET once so that "M" is displayed to store the station.
A station is assigned a preset number, beginning from 1 in consecutive order for each band.



* or ❚❚ PAUSE on the remote control

3 Repeat steps 1 and 2.
The next station will not be stored if a total of 15 preset stations have already been stored for a band.

To listen to preset stations
Select a band then press ◄► PLAY/DIR/PRESET (► PLAY/PRESET) repeatedly.
► PLAY on the remote control is also available.

To select a preset number directly with the remote control
Press the numbered buttons 0-9 and +10.
Example:
To select number 15, press +10 and 5.
To select number 10, press +10 and 0.

To clear a preset station
Select the preset number first. Press ■, and press ❚❚ within 4 seconds.
The higher numbers in the band are decreased by one.

SOUND ADJUSTMENT

Volume or tone adjustment does not affect recording.

VOL (volume)
Press VOL ⩓ UP or ⩔ DOWN. The volume level is displayed as a number from 0 to 25.
- The volume level is automatically set to 14 if the power is turned off when the volume level is set to 15 or more.

***3-MODE EQ (equalizer)**
Press 3-MODE EQ repeatedly until the desired mode is displayed.
The equalizer mode changes to R (Rock), P (Pop), J (Jazz) or no equalization, cyclically.
Rock - Emphasizes the high and low range of music.
Pop - Emphasizes voice and midrange of music.
Jazz - Emphasizes the low range of music.
* or EQ on the remote control

T-BASS system
The T-BASS system enhances the realism of low-frequency sound.
Press T-BASS to turn it on or off.

QSOUND system
This system provides a rich, three dimensional sound area for stereo sources.
You can enjoy more enhanced sound.
Press QSOUND and the QSOUND indicator lights up.
- At higher volumes, turning QSOUND on may cause sound distortion. In this case, make the volume down.

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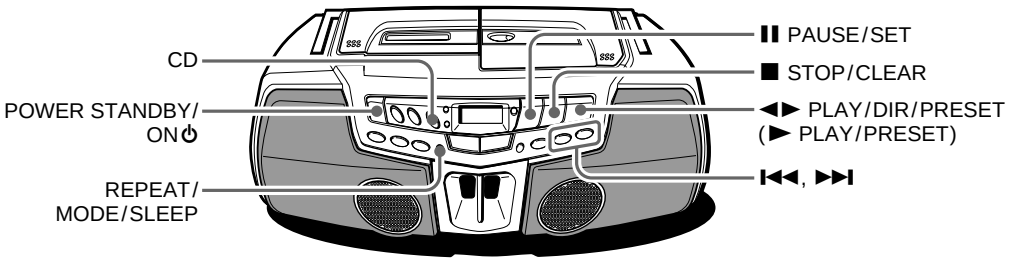
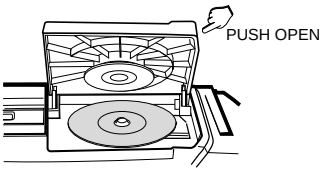


B CD OPERATION

1 Press CD.
The power is turned on.

2 Press PUSH OPEN to open the disc compartment. Place a disc with the printed side up and close the disc compartment.



Total number of tracks and total playing time are displayed. It will take about 15 seconds when loading a CD-RW disc.

3 Press ◄► PLAY/DIR/PRESET (► PLAY/PRESET) to start play.
The number of the track being played and elapsed playing time are displayed.

■ **STOP/CLEAR** – Stops play.
❚❚ **PAUSE/SET** – Pauses play. To resume play, press again.
⏮,⏭ – Searches for a particular point during playback. Hold down ⏮ or ⏭ and then release it.
– Skips to the beginning of a track. Press ⏮ or ⏭ repeatedly.

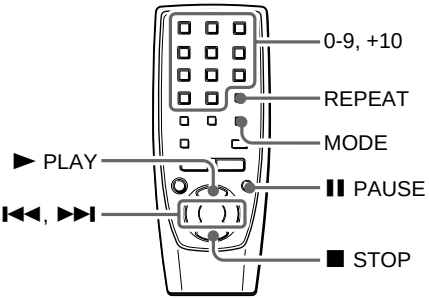
To start play when the power is off, press CD. The power is turned on and play of the loaded disc begins (Direct Play Function).
If you load a disc while the CD indicator flashes in step 2, play starts without pressing ◄► (►).

To select a track directly with the remote control, press the numbered buttons 0-9 and +10. CD play starts from the selected track and continues to the last track.
Example:
To select number 25, press +10, +10 and 5.
To select number 10, press +10 and 0.

After listening, press POWER STANDBY/ON⏻ to turn the power off.

NOTE

- Do not use irregular shape CDs (example: heart-shaped, octagonal ones).
  It may result in malfunctions.
- Do not place more than one disc in the disc compartment.
- Do not try to open the disc compartment during play.
- Do not touch the lens. Doing so may cause malfunctions.
- The unit may not play a CD-R/RW disc that is recorded on personal computers or some kinds of CD-R/RW recorders because of differences in recording platforms.
- Do not attach any seal or label to either side (the recordable side or the labeled side) of a CD-R/RW disc. It may cause malfunction.
- Do not load an unrecorded CD-R/RW disc. It will take over 30 seconds to read the disc. The disc may be damaged if you try to open the disc compartment while reading the disc.



REPEAT, RANDOM PLAY

A single track or all tracks can be played repeatedly, and all the tracks randomly. Random play can be repeated as well.

Repeat play

In playback mode, press *REPEAT/MODE/SLEEP repeatedly to select ⟲ or ⟲1.
⟲ : Repeats all the tracks.
⟲1: Repeats a single track. Select a track with I◄◄ or ►►I.
To cancel, press the button repeatedly so that ⟲ disappears.
* or MODE on the remote control. REPEAT on the remote control can be used in any mode.

Random play

In stop mode, press *REPEAT/MODE/SLEEP once so that "RANDOM M" is displayed. Press ◄► (►) to start playback.
To cancel, press REPEAT/MODE/SLEEP or ■ in stop mode.
* or MODE on the remote control.

NOTE

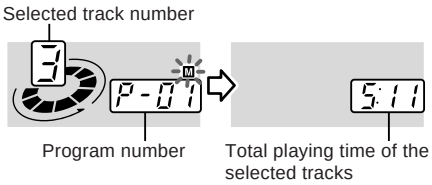
- During random play, you cannot skip back to the previous track with I◄◄.
- When selecting a track with the numbered buttons, random play is canceled.

PROGRAMMED PLAY

Up to 30 tracks can be programmed from the disc.

1 In stop mode, press *REPEAT/MODE/SLEEP.
"RANDOM M" flashes in the display.
* or MODE on the remote control

2 Press I◄◄ or ►►I to select a track, then press II PAUSE/SET to store it.



To select a track with the remote control
Press the numbered buttons 0-9 and +10.

3 Repeat step 2 to program other tracks.

4 Press ◄► (►) to start play.

To check the program, press I◄◄ or ►►I in playback mode.
To clear the program, press ■ once in stop mode so that "M" disappears in the display.
To add tracks to the program, repeat step 2 in stop mode. The track will be programmed after the last track.
To change the programmed tracks, clear the program and repeat all the steps again.

NOTE

The total playing time of the selected tracks will be displayed as "--:--" .
- When it exceeds "99:59".
- When a track number 31 or higher is selected.

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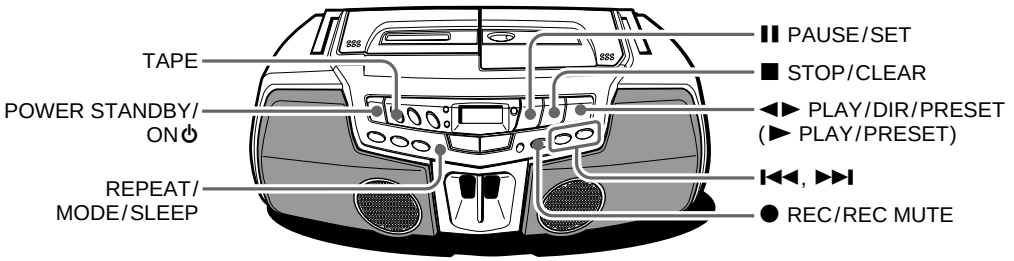


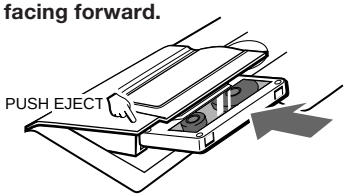
C TAPE OPERATION

- Use Type I (normal) tapes only.
- **CSD-FD92** plays (records on) both sides.
- **CSD-FD82** plays (records on) the side facing up.

PLAYBACK

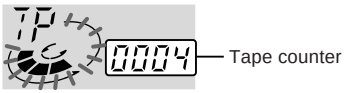
1 Press TAPE.
The power is turned on.
If the tape has been inserted, play begins.

2 Press PUSH EJECT to open the cassette holder and insert a tape with the side to be played facing up and the exposed side facing forward.



Press PUSH EJECT to close.

3 Press ◄► PLAY/DIR/PRESET (► PLAY/PRESET) to start playback.



To set the tape counter to "0000"
Press ■ in stop mode. The counter is also set to "0000" when opening the cassette holder.

■ **STOP/CLEAR** – Stops play.
❚❚ **PAUSE/SET** – Pauses play. To resume play, press again.
⏮/⏭ – Rewinds/ fast forwards. To stop the winding, press ■.

After listening, press POWER STANDBY/ON⏻ to turn the power off.

For CSD-FD92

To change the playback side, press ◄► during play.
: Plays the side facing up (indicated for CSD-FD82 as well).
: Plays the opposite side.

To select a reverse mode, press *REPEAT/MODE/SLEEP repeatedly.
: Plays one side only.
: Plays both sides once. Play stops at the end of the reverse side.
: Plays both sides repeatedly.
* or MODE on the remote control

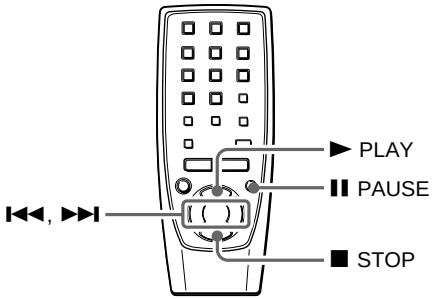
RECORDING

1 Insert a tape with the side to be recorded on facing up and the exposed side facing forward.
For CSD-FD92, press REPEAT/MODE/SLEEP to select the reverse mode.
: Records on one side only.
or : Records on both sides. Check that is displayed, so as to start recording from the side facing up.

2 Get ready to record from the source.
To record from a CD, press CD and load the disc.
To record from a radio broadcast, press TUNER/BAND and tune to a station.

3 Press ● REC/REC MUTE to start recording.
"REC" flashes on the display.
When the selected function is CD, CD play and recording starts simultaneously.

To record only the selected tracks of a CD
1 Follow steps 1 to 3 of PROGRAMMED PLAY on page 9 to program tracks.
2 Press ●.



To stop recording, press ■. To stop CD play, press it again.
To pause recording (only when the source is TUNER)**,** press ❚❚. To resume, press it again.
To erase recording, press TAPE and press ●.
After recording, press POWER STANDBY/ON⏻ to turn the power off.

To insert blank spaces
When recording from the radio, 4-second blank spaces can be inserted. These spaces are useful to locate the desired portion on the tape when playing back on other units with the "Music Sensor" function.

1 Press ● REC/REC MUTE in recording or recording pause mode.
"REC" indicator flashes quickly and the tape runs without recording for 4 seconds, then pauses.
2 Press ❚❚ to resume recording.

To make blank spaces less than 4 seconds, press ❚❚ while "REC" flashes quickly.
To make blank spaces more than 4 seconds, press ● again after the tape pauses.

To prevent accidental erasure
Break off the plastic tabs on the cassette tape with a screwdriver or other pointed tool after recording.
To record on the tape again
Cover the tab openings with adhesive tape, etc.

SETTING THE SLEEP TIMER

The unit can be turned off automatically at a specified time.

1 **Hold down *REPEAT/MODE/SLEEP until "SLEEP" flashes in the display.**
* or MODE on the remote control

2 **Within 4 seconds, press I◄◄ or ►►I to specify the time until the power is turned off.**
Each time it is pressed, the time changes between 10 and 180 minutes in 10-minute steps.

While the sleep timer works, "SLEEP" is displayed.

To check the time remaining until the power is turned off
Repeat step 1 shown above. The remaining time is displayed for 4 seconds.

To cancel the sleep timer
Repeat step 1 to display the remaining time and hold down REPEAT/MODE/SLEEP again until "OFF" is displayed.

Simple sleep timer setting
Press REPEAT/MODE/SLEEP while the power is off. The unit is turned on with the last function, and the sleep timer is automatically turned on with the 30-minute setting.
Select the function, if needed, and start playback.

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NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

... Reorient or relocate the receiving antenna.
... Increase the separation between the equipment and receiver.
... Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
... Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

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